



**PATENTS +TMS**  
**A PROFESSIONAL CORPORATION**  
**1914 NORTH MILWAUKEE AVENUE**  
**CHICAGO, IL 60647**  
**TEL: 773/772-6009**

APPLICANT: Engstrand GROUP ART UNIT: 2878  
 SERIAL NO.: 09/690,151 EXAMINER: Luu  
 FILING DATE: Oct. 17, 2000 ATTY. DOCKET NO.: MOT-P-00-001  
 INVENTION: "AN APPARATUS, A SYSTEM AND A METHOD FOR POSITION MONITORING  
 AND/OR CLEANING OF A MACHINE ELEMENT"

**MS A F**  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

SIR:

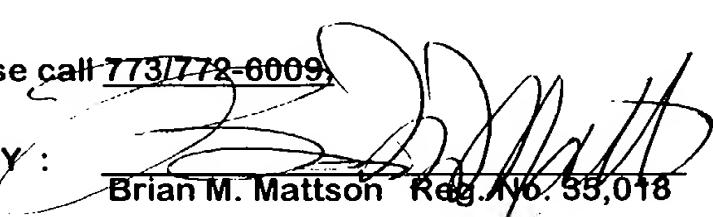
Transmitted herewith is an Amendment After Final in response to the Office Action dated June 18, 2003 for the above-identified application.

No additional fee is required.  The fee has been calculated as shown below:

CLAIMS AS AMENDED (AMENDED ONLY)						
	(2) CLAIMS REMAINING AFTER AMENDMENT		(4) HIGHEST NO. PREVIOUSLY PAID FOR	(5) PRESENT EXTRA	(6) RATE	(7) ADDITIONAL FEE
TOTAL CLAIMS	20	MINUS	20	X 0	X 9.00 X 18.00	0
INDEP. CLAIMS	03	MINUS	03	X 0	X 42.00 X 84.00	0
Application amended to contain any multiple dependent claims not previously paid for.			() YES (X) NO		\$130.00 \$260.00 ONE TIME	0
			TOTAL ADDITIONAL FEE FOR THIS AMENDMENT		0	

The Commissioner is hereby authorized to charge any additional fees which may be required, or to credit any overpayment to Deposit Acct. No. 50-0595. A duplicate of this sheet is enclosed for this purpose.

When phoning re this application, please call 773/772-6009.

BY :   
 Brian M. Mattson Reg. No. 35,018

**CERTIFICATE OF MAILING**

I hereby certify that the attached Amendment, Transmittal letter and return postcard are being deposited as First Class Mail in an envelope addressed to the MS After Final, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on July 28, 2003.

  
 Brian M. Mattson Reg. No. 35,018



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
AMENDMENT AFTER FINAL

APPLICANT: Engstrand

EXAMINER: Luu

ATTY. DOCKET NO.: MOT-P-00-001

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FILING DATE: Oct. 17, 2000

GROUP ART UNIT: 2878

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Mail Stop Non-Fee Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SIR/MADAM:

In response to the Office Action dated June 18, 2003, please amend the above-identified application as follows:

IN THE CLAIMS:

1. (Currently amended) An apparatus for measuring displacement, the apparatus comprising:

a machine element having a body defining an interior wherein the ~~wall~~ body has an interior surface and a length defined between a first end and a second end;

a first wall at the first end;

a second wall at the second end substantially enclosing the interior;

a shaft element movable within the machine element;

a head element attached to the shaft element adjacent to the interior surface of the machine element;

a light source ~~attached to~~ on the interior surface of the

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